

INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/34534

A CLASSIFICATION OF SUBJECT MATTER

IPC(7) A61K38/00

US CL 514/12, 424/130 I,

According to International Patent Classification (IPC) or to both national classification and IPC

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U S 514/12, 424/130 I,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C DOCUMENTS CONSIDERED TO BE RELEVANT

| Category # | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No |
|------------|--|----------------------|
| X | WO 02/080952 A2 (LAMB et al) 17 October 2002 (17 10 02), page 3, lines 5-10, page 3 lines 26-30, page 4 lines 7-21, page 5, lines 10-21, page 7, lines 1-20, page 9 lines 10-15, page 11 lines 15-22 page 21 lines 10-16, page s 22-25 and page 90, line 5 | 1-23 |
| X,P | US 2004/01 1663 A1 (DUDEK et al) 10 June 2004 (10 06 04) see [0023]-[0031] | 1-23 |



Further documents are listed in the continuation of Box C



See patent family annex

| | |
|---|--|
| * Special categories of cited documents | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "B" earlier application or patent published on or after the international filing date | "Y" document of particular relevance the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure use exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search

13 December 2005 (13 12 2005)

Date of mailing of the international search report

JAN 2006

Name and mailing address of the ISA/US

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-23, drawn to method of inhibiting proliferation of SCLC

Group II, claim(s) 24-46, drawn to method of identifying SCLC

Group III, claim(s) 47-58, drawn to method of identifying agent to treat SCLC

Group IV, claim(s) 59-60, drawn to method of monitoring the treatment of a patient with SCLC

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons. Each of the methods of Groups I-IV require the detection of a different product or activity. In Group I, an identified Hh antagonist is used to inhibit or treat SCLC whereas in Group II Hh activity is determined, whereas in Group III any compound is tested for Hh pathway activity and in Group IV the change of pathway activity is monitored.

Continuation of B. FIELDS SEARCHED Item 3:
WEST
search terms small near2 cell near2 lung, sclc, hedgehog

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons

- 1 ☐ Claims Nos
because they relate to subject matter not required to be searched by this Authority, namely
- 2 ☐ Claims Nos
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically
- 3 ☐ Claims Nos
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows
Please See Continuation Sheet

- 1 ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
- 2 ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees
- 3 ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos

- 4 ☒ No required additional search fees were timely paid by die applicant Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos 1-23

- Remark on Protest
- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee
 - ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation
 - ☐ No protest accompanied the payment of additional search fees